DENON

A/V Surround Receiver featuring Advanced Connectivity, Network Audio and Photo Streaming and an interface that enhances your level of entertainment enjoyment

The AVR-4310 is a 7-channel A/V surround receiver that not only offers DENON LINK 4th and high-bit i/p conversion and scaling along with other acclaimed Denon audio and video technologies, but also lets users enjoy a wide variety of media such as Network Audio and Photo Streaming



Sleep timer function

State-of-the-art Denon Solutions for Maximising Content Quality Identical quality and power for all 7 channels, 130W x 7ch

- Dynamic Discrete Surround Circuit, D.D.S.C.-HD
 New dual 32-bit floating point high precision DSP processors
 -AL24 Plus processing, to dramatically enhance the music listening experience
- -Differential D/A Converters
- Stable power supply for high-quality sound and picture playback
- Compressed Audio Restorer to enhance digital music files
- Dolby TrueHD and DTS-HD Master Audio decoders
- Denon's high picture quality circuitry, to enhance enjoyment of existing DVDs
- Video digital noise reduction, to optimise effects for both SD and HD content
- Vertical Stretch (supporting the CinemaScope aspect ratio)

- · 2-line fluorescent display on front panel
- Three Quick Select Buttons
- · EL pre memory & learning remote control unit +zone remote control unit

Others

- Remote Installer Access via DPMS
- PC setup via Ethernet (Web setup)

State-of-the-art Denon Solutions for **Maximising Content Quality**

• HDMI Clock Control via DENON LINK 4th

DENON LINK is proprietary high-quality digital audio transmission technology that utilizes a real-time balanced transmission system to protect the signal from external noise. With the more advanced Denon Link 4th used in an HDMI connection, for HD audio read from Blu-ray disc as well, the master clock that operates the D/A converter of the A/V surround receiver is transmitted to the player, enabling the circuitry to be operated while sharing the same clock in order to achieve digital audio transmission with negligible iitter. Sound localization becomes more precise, and a greater sense of space is produced in the sound images. When combined with a Denon Blu-ray player that supports Denon Link 4th, users will be able to enjoy the level of sonic quality that is expected from HD audio.

Clock Jitter Beducer available for all digital inputs

The Clock Jitter Reducer thoroughly suppresses fluctuations on the clock waveform to remove distortion from the digital audio signal and minimize adverse influences on sound quality.

Support for new surround extension

By assigning 7 channels of power from the AVR-4310's built-in power amp to individual channels, you can create and enjoy your own custom surround mode.

- Audyssey DSX processing

Auddysey DSX extends 5.1-channel and 7.1-channel sound sources to a wider and higher dimension. A sound that is wider to the left and right is achieved by adding a sound source (LW/RW) that is wider than the usual placement of the front (FL/FR) speakers, and a greater sense of height in sound space is achieved by adding a sound source (LH/RH) in the upper area between the FL(FR) and LW(RW) channels.

-Dolby Pro Logic IIz processing

Dolby Pro Logic IIz is surround technology that adds front height channel sound sources above the front left and right speakers to enable 7.1-channel playback for 5.1-channel program sources or 9.1-channel playback for 7.1-channel sources such as Blu-ray. Since the dimension of height is being added to the conventional surround sound, you can experience sound movements above you while watching movies or plaving games. With music, the sound space of a concert hall is more realistically reproduced.

- Minimum Signal Path for clear audio and video signal
- Direct Mechanical Ground Construction, embodying concepts for thorough vibration resistance
- Digital / analog separate windings
- · Compressed Audio Restorer to enhance digital music files

Connectivity & Future-ready Expandability • 6 x HDMI in (1 x front panel)

An HDMI input has been provided on the front panel for quick, easy connection of an external devices such as a video camera or game console.

• USB digital direct connection for iPod (audio only)



The AVR-4310 has USB ports for digital audio input from an iPod to let you enjoy music in high-quality sound made possible by acclaimed Denon audio

technologies such as DDSC-HD and the combination of AL24 Processing and high-performance D/A converters. You can also operate the system while viewing information from the iPod, including music information, on the TV screen through the AVR-4310's GUI function. Simply use the USB cable that came with your iPod to connect it to the AVR-4310

Main Specificatio	ns			
Power amplifier section		Preamplifier section		
Rated output	*THD figures are power amp stage values.	Input sensitivity/imped PHONO (MM)	ance 2.5 mV	
Front L/R	130 W + 130 W	Audio inputs	200 mV/47 kohms	
	(8 ohms, 20 Hz - 20 kHz, THD 0.05 %)	Output level/Load impedance		
	170 W + 170 W	Audio outputs	1.2 V	
	(6 ohms, 1 kHz, THD 0.7%)			
		FM section		
Centre	130 W	Tuning frequency range	87.5 - 108.0 MHz	
	(8 ohms, 20 Hz - 20 kHz, THD 0.05 %) 170 W	Usable sensitivity	1.5 µV (14.8 dBf)	
	(6 ohms, 1 kHz, THD 0.7%)	AM section		
		Tuning frequency range	522 - 1611 kHz	
Surround L/R	130 W + 130 W	Usable sensitivity	20 µV	
	(8 ohms, 20 Hz - 20 kHz, THD 0.05 %)			
	170 W + 170 W	General		
	(6 ohms, 1 kHz, THD 0.7%)	Power supply Power consumption	AC 230 V, 50 Hz 780 W (Standby 0.1 W)	
Surround Back L/R	130 W + 130 W	Dimensions (W x H x D)	434 x 171 x 414 mm	
	(8 ohms, 20 Hz - 20 kHz, THD 0.05 %)	Weight	15.8 kg	
	170 W + 170 W			
	(6 ohms, 1 kHz, THD 0.7%)			



· Audio/video playback and control for iPod with optional dock (ASD-11R)

- · Includes dedicated zone remote control unit
- 2way remote ready (optional: Denon RC-7000CI/ RC-7001RCI)

Ease-of-use

 Advanced GUI, Superimposed on HDMI (up to 1080p) The AVR-4310 is equipped with an easy-to-view Graphical User Interface (GUI) featuring visual menu displays and hierarchical directories. The hierarchical directory displays let you easily see where you are and what settings you want to make. Operation has been simplified as well. These menu displays can also be output to the monitor over HDMI.

- Auto surround mode
- · Audio level memory, capable of correcting different signal levels for each input device
- Variable subwoofer crossover switching

Others

- · AMX, Crestron third party IP control support with RS-232C port
- 150mA Trigger output
- IR Remote in/out ports

MI mponent Video mposite (Video) alog Audio (Tuner included)	x 6 x 3 x 7 x 7
video mposite (Video)	x 7
mposite (Video)	
	x 7
alog Audio (Tuner included)	
	x 10
alog EXT. Input	7.1ch
NON LINK 4th	x 1
gital Optical	х 3
gital Coaxial	х З
MI Monitor	x 2
	x 1
	x 1
Video	x 2
mposite Monitor	x 1
	x 1
alog Audio REC	x 2
dio Preout (Zone2 / Zone3 / 7.1ch)) x3
gital Optical	x 1
ones	x 1
crophone Port	x 1
	x 1
1 Tuner Antenna	x 1
1 Tuner Antenna	x 1
nernet	x 1
B (selectable front or back panel)	x 2
-232C	x 1
mote Control In/Out	In 1 / Out 1
12V 150mA MAX. trigger out	x 2
	gital Optical gital Coaxial MI Monitor mponent Monitor Video Monitor wideo Monitor mposite Monitor mposite (Zone2) alog Audio REC

*Premium silver version is also available.

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Denon Brand, D&M Brand Group Japan

D&M Building, 2-1 Nisshin-cho, Kawasaki-ku, Kawasaki-shi, Kanagawa, 210-8569, Japan www.denon.com